

FOLDABLE CHAIR ASSEMBLY

BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to a foldable chair assembly, and more particularly to a foldable chair assembly that is folded and expanded easily and conveniently, thereby facilitating the user using the foldable chair assembly.

2. Description of the Related Art

A conventional chair has a fixed size and cannot be folded, thereby occupying larger space when not in use. The foldable chair can be expanded when in use and can be folded when not in use so as to save the space, thereby facilitating the user storing the conventional foldable chair. However, the conventional foldable chair tends to be folded unintentionally, thereby causing danger to the user.

SUMMARY OF THE INVENTION

The primary objective of the present invention is to provide a foldable chair assembly that is folded and expanded easily and conveniently, thereby facilitating the user using the foldable chair assembly.

Another objective of the present invention is to provide a foldable chair assembly, wherein when the foldable chair assembly is disposed at the normally stretched state, each of the two resting members is located above an intersection between the first support leg and the second support leg, and the bent portion of each of the two resting members is directed upward.

A further objective of the present invention is to provide a foldable chair assembly, wherein when the foldable chair assembly is disposed at the normally stretched state, the limit rod of the first support leg is rested on the mediate portion of the second support leg, so that the first support leg is combined with the second support leg so as to support the support frame and the seat rigidly and stably.

A further objective of the present invention is to provide a foldable chair assembly, wherein when the foldable chair assembly is disposed at the folded state, each of the two resting members is located below an intersection between the first support leg and the second support leg, and the bent portion of each of the two resting members is directed downward.

In accordance with the present invention, there is provided a foldable chair assembly, comprising:

- a support frame;
- a first support leg having an upper portion pivotally mounted on a bottom of the support frame;
- a second support leg having an upper portion pivotally mounted on the bottom of the support frame; and
- two opposite resting members each pivotally mounted between a mediate portion of the first support leg and a mediate portion of the second support leg.

Further benefits and advantages of the present invention will become apparent after a careful reading of the detailed description with appropriate reference to the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

5 Fig. 1 is a perspective view of a foldable chair assembly in accordance with the preferred embodiment of the present invention;

 Fig. 2 is a partially perspective view of the foldable chair assembly in accordance with the preferred embodiment of the present invention;

 Fig. 2A is a partially enlarged view of the foldable chair assembly as
10 shown in Fig. 2;

 Fig. 2B is a plan cross-sectional view of the foldable chair assembly as shown in Fig. 2A;

 Fig. 3 is an exploded perspective view of the foldable chair assembly as shown in Fig. 2;

15 Fig. 4 is a plan view of the foldable chair assembly as shown in Fig. 1;

 Fig. 5 is a schematic operational view of the foldable chair assembly as shown in Fig. 4;

 Fig. 6 is a schematic operational view of the foldable chair assembly
20 as shown in Fig. 5;

 Fig. 7 is a schematic operational view of the foldable chair assembly as shown in Fig. 6;

Fig. 8 is a plan folded view of the foldable chair assembly as shown in Fig. 1;

Fig. 9 is a schematic operational view of the foldable chair assembly as shown in Fig. 8;

5 Fig. 10 is a schematic operational view of the foldable chair assembly as shown in Fig. 9; and

Fig. 11 is a schematic operational view of the foldable chair assembly as shown in Fig. 10.

DETAILED DESCRIPTION OF THE INVENTION

10 Referring to the drawings and initially to Figs. 1-4, a foldable chair assembly 7 in accordance with the preferred embodiment of the present invention comprises a support frame 5, a first support leg 1 having an upper portion pivotally mounted on a bottom of the support frame 5, a second support leg 2 having an upper portion pivotally mounted on the bottom of the support
15 frame 5, and two opposite resting members 3 each pivotally mounted between a mediate portion of the first support leg 1 and a mediate portion of the second support leg 2. Preferably, each of the first support leg 1 and the second support leg 2 is substantially U-shaped.

The bottom of the support frame 5 is provided with a plurality of
20 pivot ears 51 for pivoting the upper portion of each of the first support leg 1 and the second support leg 2 by a plurality of pivot pins 52. The foldable chair assembly 7 further comprises a seat 6 mounted on the support frame 5.

As shown in Figs. 2A and 2B, each of the two resting members 3 is substantially V-shaped and has a first end pivotally mounted on an inner side of the first support leg 1 by a first pin 4 and a second end pivotally mounted on an outer side of the second support leg 2 by a second pin 41. In addition, the mediate portion of the first support leg 1 is provided with a limit rod 11 rested on the mediate portion of the second support leg 2. Preferably, the limit rod 11 of the first support leg 1 is located above the first pin 4 at the first end of each of the two resting members 3.

As shown in Figs. 2 and 4, each of the two resting members 3 has a mediate portion formed with a bent portion 30 facing upward and directed toward the upper portion of the first support leg 1.

Referring to Figs. 4-7 with reference to Figs. 1-3, when the user wishes to fold the foldable chair assembly 7, the limit rod 11 of the first support leg 1 is rested on the mediate portion of the second support leg 2 as shown in Fig. 4, so that the first support leg 1 is combined with the second support leg 2 so as to support the support frame 5 and the seat 6 rigidly and stably. Then, the support frame 5 is pulled upward to move the first support leg 1 upward, so that the first support leg 1 and the limit rod 11 are moved upward and each of the two resting members 3 are pivoted about the second pin 41 in the counterclockwise direction to move from the position as shown in Fig. 4 to the position as shown in Fig. 5. Then, the support frame 5 is pushed downward to move the first support leg 1 downward, so that the first support leg 1 and the

limit rod 11 are moved downward and each of the two resting members 3 are pivoted about the second pin 41 in the counterclockwise direction to move from the position as shown in Fig. 5 to the position as shown in Fig. 6. At this time, each of the two resting members 3 is located below an intersection between the first support leg 1 and the second support leg 2 and is directed downward. Then, the support frame 5 is pushed downward successively to move the first support leg 1 downward, so that the first support leg 1 and the second support leg 2 are pressed toward each other and are folded below the support frame 5 as shown in Fig. 7, thereby folding the foldable chair assembly

10 7.

Referring to Figs. 8-11 with reference to Figs. 1-7, when the user wishes to expand the foldable chair assembly 7, the support frame 5 is pulled upward to move the first support leg 1 upward, so that the first support leg 1 and the limit rod 11 are moved upward and each of the two resting members 3 are pivoted about the second pin 41 in the clockwise direction to move from the position as shown in Figs. 8 and 9 to the position as shown in Fig. 10. At this time, each of the two resting members 3 is located above an intersection between the first support leg 1 and the second support leg 2 and is directed upward. Then, the support frame 5 is pushed downward to move the first support leg 1 downward, so that the first support leg 1 and the limit rod 11 are moved downward and each of the two resting members 3 are pivoted about the second pin 41 in the clockwise direction to move from the position as shown in

Fig. 10 to the position as shown in Fig. 11, where the limit rod 11 of the first support leg 1 is rested on the mediate portion of the second support leg 2, thereby expanding the foldable chair assembly 7 as shown in Fig. 11. Thus, the first support leg 1 is combined with the second support leg 2 so as to support the support frame 5 and the seat 6 rigidly and stably.

Accordingly, when the foldable chair assembly 7 is disposed at the normally stretched state, each of the two resting members 3 is located above an intersection between the first support leg 1 and the second support leg 2, and the bent portion 30 of each of the two resting members 3 is directed upward. In addition, when the foldable chair assembly 7 is disposed at the folded state, each of the two resting members 3 is located below an intersection between the first support leg 1 and the second support leg 2, and the bent portion 30 of each of the two resting members 3 is directed downward. Further, when the foldable chair assembly 7 is disposed at the normally stretched state, the limit rod 11 of the first support leg 1 is rested on the mediate portion of the second support leg 2, so that the first support leg 1 is combined with the second support leg 2 so as to support the support frame 5 and the seat 6 rigidly and stably. Further, the foldable chair assembly 7 can be folded and expanded easily and conveniently, thereby facilitating the user using the foldable chair assembly 7.

Although the invention has been explained in relation to its preferred embodiment(s) as mentioned above, it is to be understood that many other possible modifications and variations can be made without departing from the

scope of the present invention. It is, therefore, contemplated that the appended claim or claims will cover such modifications and variations that fall within the true scope of the invention.